***COMPLETE IN NOTEBOOK! COPY ALL FIGURES!***

CW48HW48: Unit 3 Review

**Geometry  
Due: Tuesday, December 20th   
Due**

**READ ALL DIRECTIONS! Failure to show** ALL WORK **and follow** all directions COMPLETELY **will result in LaSalle.**

|  |  |
| --- | --- |
| **Station 1: Area** | |
| 1. A triangle with an area of has a base that is 25 cm long. What is the triangle’s height? (Draw a picture to represent the triangle and label it with the correct dimensions). | |
| 1. Image result for isosceles trapezoid with all measurementsDetermine the area of the isosceles trapezoid given. Be sure to include appropriate units. | 1. Image result for trapezoid with heightThe given trapezoid is split into two triangles with the labeled dimensions below. Triangle A has a base of 24 inches and a height of 7 inches. If the area of the trapezoid is , what is the length of the ? |
| 1. Find the perimeter of a rectangle with vertices at Round your answer to the nearest hundredth. | 1. A circular object has an area of approximately . Determine the circumference of the circle. |
| 1. Last year, Anthony planted a garden that was 12 feet by 4 feet, surrounded by a mesh wire fence to keep rabbits out. This year, he has twice as much wire mesh. He plans to double each side length. By **how many** square feet will the area of the garden plot be **larger** this year than last year? | 1. The figure shows two semi-circles, determine the area of the shaded region. |
| 1. A stadium is being built and the builders need to determine the perimeter of the entire building. The stadium has a shape of a rectangle with two half-circles extending out on either end. The rectangular field is 120 yards long and 80 yards wide. Draw a picture to represent the stadium and then find the area. | 5. You are working at a pizza delivery store and someone calls in a special order.  They want a large pizza (15 inches in diameter) but only want of the pizza to have pepperoni. What is the area of the slice of pizza that will have pepperoni |
|  | 10. Graph the lines , , and .  a. What shape is created by the three lines?  b. Identify the base and the height.  c. What is the area bound by the given lines? |
| 1. . Rectangle ABCD has the vertices as shown in the graph to the right. Calculate the area and perimeter of the rectangle. Round your answers to the nearest hundredth. | 1. The coordinates of vertices A and B of ABC are and If the area of ABC is 18 square units, what could be the coordinates of point C? Mathematically prove that your answer is correct. |
| 1. Shade in the sector area of the given figure. | 1. Calculate the sector area for the sector designated in the figure. |

|  |  |
| --- | --- |
| **Station 2: Perimeter** | |
| 1. A stadium is being built and the builders need to determine the perimeter of the entire building. The stadium has a shape of a rectangle with two half-circles extending out on either end. The rectangular field is 120 yards long and 80 yards wide. Draw a picture to represent the stadium and then find the perimeter. | 1. Find the perimeter of a rectangle with vertices at |
| 1. Calculate the perimeter of triangle ABC, given |
| 1. Image result for composite area questionsMelissa calculated the perimeter of the composite figure to be 29 meters. Explain in detail the mistake that she made. | 1. Determine the area and perimeter of the isosceles trapezoid given. Be sure to include appropriate units. Image result for isosceles trapezoid with all measurements |
| 1. Image result for arc length problemsCalculate the length of the arc if the radius of the circle is 12cm. | 1. Rectangle ABCD has the vertices as shown in the graph to the right. Calculate the area and perimeter of the rectangle. |